Main MMC console

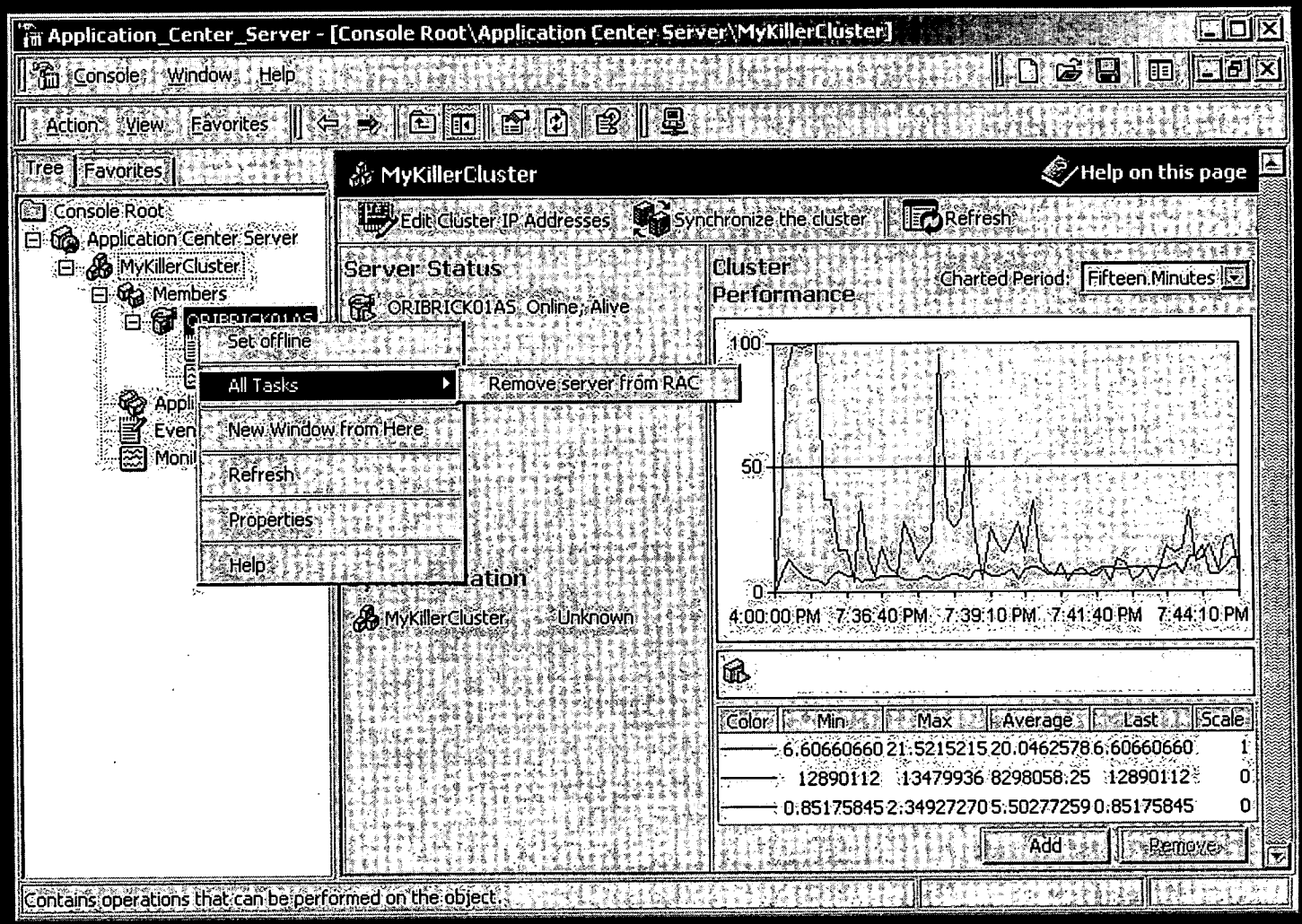

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EXHIBIT A

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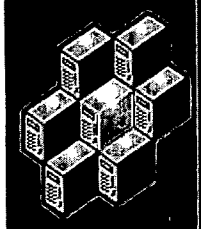

Monitoring

- Integrated monitoring tools
  - Roll up perf, event, log data from across multiple servers into integrated console
  - Allow drill down into specific machines, resources
  - NON GOAL: Usage Analysis / Data Mining
- Self-healing, Self-tuning
  - Monitor health of servers and applications
  - Set thresholds for acceptable performance
  - Fix it if we can

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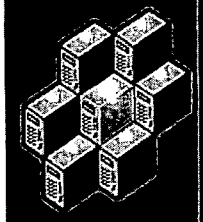
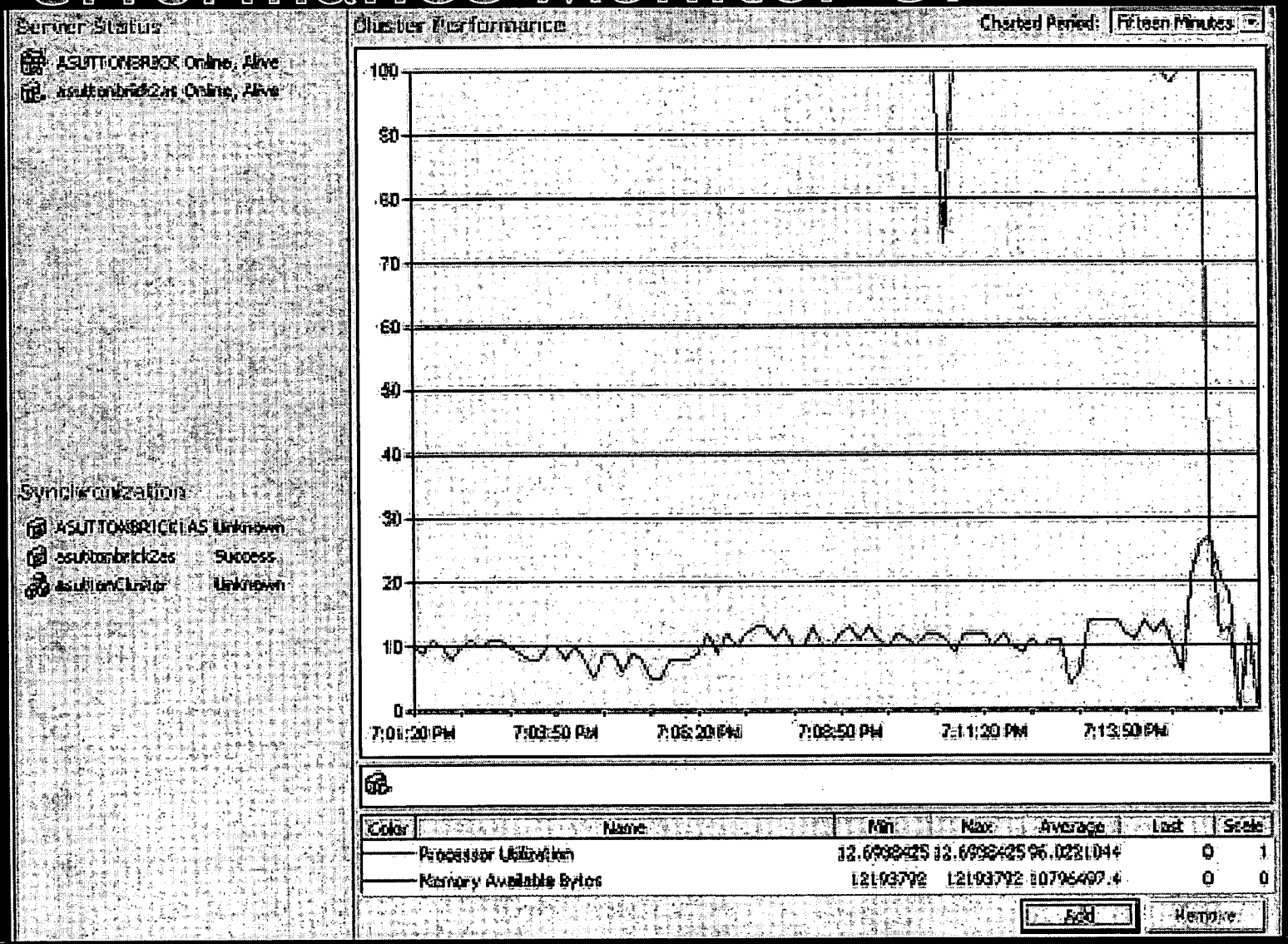
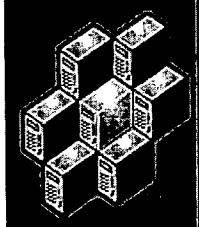


AppCenter Performance Monitor

- Real-Time to Intraday to Weeks to Years
  - Rollup data to store larger time periods
  - Interpolate down large time periods to fit chart
- Graphing View
  - Can select which counters to graph
  - Counters in a 10-15 preset list.
  - Last value, avg/sum, min, max across servers
- Default charts in main UI
- Custom charts in separate windows

Performance Monitor UI

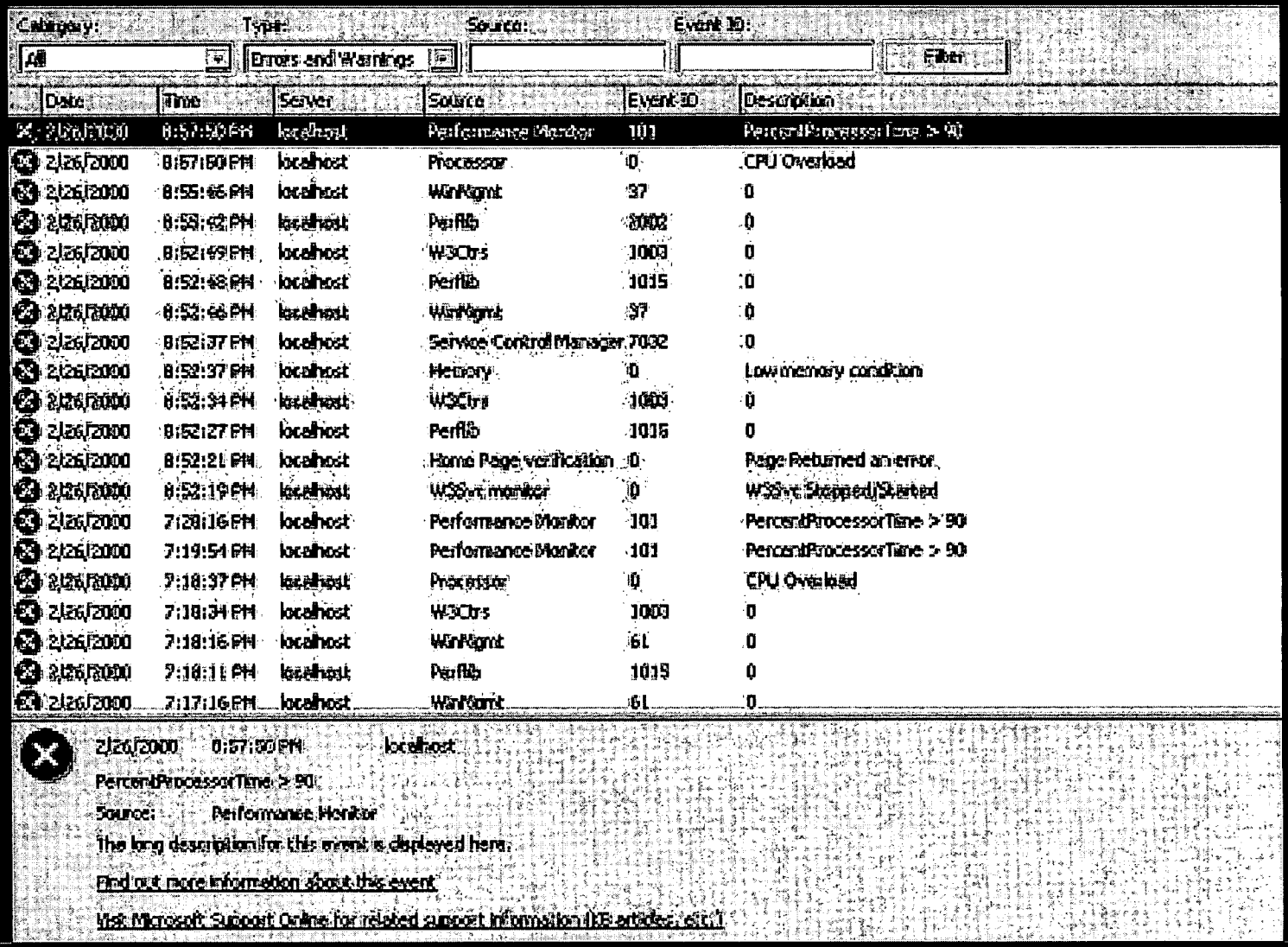




Viewing the Logs

- View event logs for cluster or per server
  - Log agent does distributed query, aggregates, and sorts
- Cluster Event Viewer (AppCenter, Windows, etc.)
  - Filter by source, type, date, server, severity

Log Viewer UI



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